

U.S.S.N.: 09/767370

2

Group Art Unit: 1643

Pending claims:

1-7. (Canceled)

8. (Previously presented) A high yield preparation enriched in biologically active receptor-immunoglobulin fusion protein (receptor-Ig-fusion protein) comprising
a) at least 70% biologically active receptor-Ig-fusion protein, and
b) no more than 30% inactive receptor-Ig fusion protein,
obtained by culturing a mammalian host cell transformed with DNA encoding the receptor-Ig fusion protein in a culture system having a temperature of about 27° C to about 35° C,
wherein the receptor-Ig fusion protein comprises a member of the TNF family of receptors.

9. (Canceled)

10. (Previously presented) The preparation of claim 8, wherein the receptor-Ig-fusion protein comprises lymphotxin- β receptor (LT- β -R)-Ig fusion protein.

11. (Previously presented) The preparation of claim 8, wherein the receptor-Ig-fusion protein comprises herpes virus entry mediator (HVEM)-Ig-fusion protein.

12-15. (Canceled)

16. (Previously presented) A pharmaceutical preparation obtained by
(a) culturing a host cell transformed with DNA encoding a lymphotxin- β receptor (LT- β -R)-Ig-fusion protein in a culture system having a temperature of about 27° C to about 32 ° C, thereby expressing biologically active LT- β -R-Ig-fusion proteins in a cell culture supernatant;
(b) recovering biologically active LT- β -R-Ig-fusion proteins from said cell culture supernatant, wherein said cell culture supernatant comprises at least 70% LT- β -R-Ig-fusion proteins; and
(c) combining the biologically active LT- β -R-Ig-fusion proteins recovered from step (b) with a pharmaceutically acceptable carrier.

U.S.S.N.: 09/767370

3

Group Art Unit: 1643

17-25. (Canceled)

26. (Previously presented) A high yield preparation enriched in biologically active receptor-immunoglobulin fusion protein (receptor-Ig-fusion protein) comprising a

- a) at least 70% biologically active receptor-Ig-fusion protein; and
- b) no more than 30% inactive receptor-Ig fusion protein,

obtained by culturing yeast transformed with DNA encoding the receptor-Ig-fusion protein in a culture system having a temperature of about 10° C to about 25° C, wherein the receptor-Ig fusion protein comprises a member of the TNF family of receptors.

27. (Canceled)

28. (Previously presented) The preparation of claim 26, wherein the receptor-Ig-fusion protein comprises LT- β -R-Ig-fusion protein.

29. (Previously presented) The preparation of claim 26, wherein the receptor-Ig-fusion protein comprises HVEM-Ig-fusion protein.

30-36. (Canceled)

37. (Previously presented) A high yield preparation enriched in biologically active receptor-Ig fusion protein comprising at least 70% biologically active HVEM-Ig-fusion protein obtained by culturing a mammalian host cell transformed with DNA encoding the HVEM-Ig-fusion protein in a culture system having a temperature of about 27° C to about 35 ° C.

38. (Previously presented) The preparation of claim 37, wherein the culture system has a temperature of about 27° C to about 32 ° C.

39. (Previously presented) The preparation of any one of claims 8, 10, and 11, wherein the culture system has a temperature of about 27° C to about 32 ° C.

U.S.S.N.: 09/767370

4

Group Art Unit: 1643

40. (Previously presented) The preparation of claim 8 or 10, wherein the host cell is a Chinese hamster ovary (CHO) cell or a COS cell.

41. (Previously presented) The preparation of claim 16, wherein the host cell is a CHO cell or a COS cell.

42. (Previously presented) The preparation of claim 8 or 10, wherein the preparation is a cell culture supernatant.

43. (Previously presented) The preparation of claim 8, wherein the preparation comprises at least 83% biologically active receptor-Ig-fusion protein.

44. (Previously presented) A high yield preparation enriched in biologically active receptor-Ig fusion protein comprising at least 70% biologically active LT- β -R-Ig-fusion protein obtained by culturing a mammalian host cell transformed with DNA encoding the LT- β -R-Ig-fusion protein in a culture system having a temperature of about 27° C to about 35 ° C.

45. (Previously presented) The preparation of claim 44, wherein the culture system has a temperature of about 27° C to about 32 ° C.

46. (Previously presented) The preparation of claim 44, wherein the host cell is a CHO cell or a COS cell.

47. (Previously presented) The preparation of claim 44, wherein the preparation is a cell culture supernatant.

48. (Previously presented) The preparation of claim 44, wherein the preparation comprises at least 83% biologically active LT β -R-Ig-fusion protein.

49. (Previously presented) A highly enriched cell culture supernatant obtained by culturing a mammalian host cell transformed with DNA encoding a receptor-Ig fusion protein in a culture system having a temperature of about 27° C to about 35° C comprising

U.S.S.N.: 09/767370

5

Group Art Unit: 1643

- a) at least 70% biologically active receptor-Ig-fusion protein; and
- b) no more than 30% inactive receptor-Ig fusion protein,

wherein the receptor-Ig fusion protein comprises a member of the TNF family of receptors and the supernatant has improved ligand binding relative to a high temperature supernatant obtained by culturing a mammalian host cell transformed with DNA encoding the receptor-Ig fusion protein in a culture system having a temperature greater than about 35° C.

50. **(Previously presented)** A high yield preparation enriched in biologically active receptor-Ig fusion protein comprising no more than 17% biologically inactive LT- β -R-Ig-fusion protein obtained by culturing a mammalian host cell transformed with DNA encoding the LT- β -R-Ig-fusion protein in a culture system having a temperature of about 27° C to about 35 ° C.

51. **(Previously presented)** The preparation of claim 50, comprising no more than 10% biologically inactive LT- β -R-Ig-fusion protein.